

Application No. 09/652,502
Amendment "B" dated June 1, 2004
Reply to Office Action mailed April 21, 2004

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) At a server computer system that is network connectable to a plurality of client computer systems, at least first and second client computer systems being configured to indicate a status for and to send and receive electronic messages for an electronic messaging user, a method for updating a master status of the electronic messaging user not withstanding that the first client computer system and second client computer system may indicate different statuses for the electronic messaging user, the master status being the status that is reflected to other client computer systems, the method comprising:

maintaining at the server a first view status for the electronic messaging user, the first view status indicating the status of the electronic messaging user as detected at the first client computer system;

maintaining at the server a second view status for the electronic messaging user, the second view indicating the status of the electronic messaging user as detected at the second client computer system;

receiving at the server a first status update from the first client computer system, the first status update indicating that the first client computer system has detected a change in the status of the electronic messaging user;

in response to receiving the first status update, the server evaluating at least the first status update, the first view status, and the second view status according to specified status rules to determine the master status of the electronic messaging user; and

storing the master status at the server in a master view corresponding to the electronic messaging user such that an appropriate status for the electronic messaging user is provided to other electronic messaging users.

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2. (Previously Presented) A method as defined in claim 1, further comprising:
associating a first view identifier with the first view status; and
associating a second view identifier with the second view status.
3. (Previously Presented) A method as defined in claim 1, further comprising:
updating the first view status in accordance with the first status update.
4. (Previously Presented) A method as defined in claim 1, wherein evaluating further
comprises determining whether the master status should reflect the first status update.
5. (Previously Presented) A method as defined in claim 1, further comprising
reflecting the master status to at least one client computer system associated with another
electronic messaging user.
6. (Previously Presented) A method as defined in claim 1, wherein storing further
comprises changing the master status to the status indicated in the first status update.
7. (Previously Presented) A method as defined in claim 1, wherein storing further
comprises the step of retaining the master status even though the status indicated in the first
status update differs from the master status.
8. (Previously Presented) A method as defined in claim 1, wherein evaluating further
comprises changing the master status according to a priority system.

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9. (Previously Presented) A method as defined in claim 8, wherein changing the master status according to a priority system further comprises:

- changing the master status to offline if the first status update indicates the electronic messaging user is invisible;

- refraining from changing the master status if the first status update indicates electronic messaging user is offline;

- refraining from changing the master status if the first status update indicates the electronic messaging user is idle;

- changing the master status to offline if the first status update indicates the electronic messaging user is offline and one or more remaining view statuses associated with the messaging client, including the second view status, indicate the electronic messaging user is offline; and

- changing the master status to idle if the first status update indicates the electronic messaging user is idle and one or more remaining view statuses associated with the messaging client, including the second view status, indicate the electronic messaging user is idle or offline.

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10. (Currently Amended) At a server that is network connectable to a plurality of clients, each client in the plurality of clients maintaining a status for an electronic messaging user and each client being configured to receive electronic messages addressed to the electronic messaging user, the electronic messaging user having presence information maintained at the server, a method for updating the presence information that is to be reflected to subscribers, the method comprising the steps of:

creating at the server a view status for each of the one or more clients in the plurality of clients, each view status representing the status of the electronic messaging user detected at a corresponding client, each view status being identified by a unique view identifier;

consolidating at the server the presence information for the electronic messaging user based on an evaluation of each view status such that the consolidated presence information is representative of a current status of the electronic messaging user even if some view statuses differ, wherein the consolidated presence information is maintained in a master view;

receiving at the server a status update from one of the one or more clients; and

updating at the server the consolidated presence information for the electronic messaging user in the master view based on an evaluation of the status update and each view status.

11. (Previously Presented) A method as defined in claim 10, wherein creating further comprises receiving a first status change at the server, the first status change being representative of an initial status of one of the one or more clients.

12. (Previously Presented) A method as defined in claim 10, wherein consolidating the presence information further comprises comparing each view status to determine a current status of the user, the current status corresponding to the presence information.

13. (Original) A method as defined in claim 10, wherein each status update is reflected in an associated client view status, the associated client view status being identified by a view identifier sent with each status update.

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14. (Previously Presented) A method as defined in claim 10, wherein updating further comprises changing the presence information according to a priority system.

15. (Previously Presented) A method as defined in claim 14, wherein changing the presence information according to a priority system further comprises at least one of:

changing the presence information to offline if the status update indicates the electronic messaging user is invisible;

refraining from changing the presence information if the status update indicates the electronic messaging user is offline;

refraining from changing the presence information if the status update indicates the electronic messaging user is idle;

changing the presence information to offline if the status update indicates the electronic messaging user is offline and the remaining view statuses indicate the electronic messaging user is offline;

changing the presence information to idle if the status update the electronic messaging user is idle and the remaining view statuses indicate the electronic messaging user is idle or offline; and

changing the presence information to match the status update.

16. (Previously Presented) A method as defined in claim 10, wherein updating further comprises reflecting the updated presence information in the master view to the subscribers.

17. (Previously Presented) A method as defined in claim 10, wherein updating further comprises changing the client view status associated with the status change, such that the client view status accurately reflects the status change.

18. (Previously Presented) A computer-readable medium having computer executable instructions for performing the method recited in claim 10.

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19. (Currently Amended) In an instant messaging group having a user associated with multiple clients, each client configured to detect a status of the user and to send and receive electronic messages for the user, the user having consolidated presence information representative of a master status stored at a server, the master status representing the status that is reflected to subscribers even if the user status detected at some of the multiple clients differs, a method for reflecting the master status to subscribers, the method comprising the steps of:

for each of the multiple clients, creating at the server a client view status at a server when each of the multiple clients sends a first status change to the server, each client view status representing the status of the user as detected at a corresponding client;

assigning at the server a view identifier to each client view status when the first status change is received at the server, wherein each view identifier associates one of the multiple clients with a corresponding client view status;

setting at the server the master status based on an evaluation of each client view status;

for each subsequent status change received from one of the multiple clients at the server, updating the master status in accordance with an evaluation of the subsequent status change and each client view status, wherein the presence information reflected to the subscribers corresponds to the master status.

20. (Original) A method as defined in claim 19, wherein the client view status is representative of a current status of an associated client.

21. (Previously Presented) A method as defined in claim 19, wherein setting the master status further comprises reflecting the master status to the subscribers.

22. (Previously Presented) A method as defined in claim 19, wherein updating the master status further comprises changing the master status according to a priority system.

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23. (Previously Presented) A method as defined in claim 22, wherein changing the master status according to a priority system further comprises at least one of:

changing the master status to offline if the subsequent status update indicates the user is invisible;

refraining from changing the master status if the status update indicates the user is offline;

refraining from changing the master status if the subsequent status update indicates the user is idle;

changing the master status to offline if the subsequent status update indicates the user is offline and the remaining client view statuses indicate the user is offline;

changing the master status to idle if the subsequent status update indicates the user is idle and the remaining client view statuses indicate the user is idle or offline; and

changing the master status to match the subsequent status update.

24. (Original) A method as defined in claim 19, wherein the master status reflected to the subscribers is representative of a current status of the user.

25. (Previously Presented) A method as defined in claim 19, further comprising selecting one of the client view statuses to be represented in the master status.

26. (Previously Presented) A computer-readable medium having computer-executable instructions for performing the method recited in claim 19.

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27. (Currently Amended) A computer program product for use in an instant messaging system having a user associated with one or more clients, each client in the one or more clients configured to detect a status of the user and to send and receive electronic messages for the user, the user having presence information reflected to subscribers, the computer program product for implementing a method for updating the presence information, the computer program product comprising:

a computer-readable medium carrying executable instructions that, when executed, cause a server to perform the following:

create at the server a view status for each of the one or more clients, each view status representing the status of the user detected at a corresponding client, each view status being identified by a unique view identifier;

consolidate at the server presence information for the user based on an evaluation of each view status such that the consolidated presence information is representative of a current status of the user;

receive at the server a status update from one of the one or more clients;

update at the server the consolidated presence information for the user according to the status update; and

reflect at the server the updated consolidated presence information to the subscribers such that appropriate presence information is provided to the subscribers even if some view statuses differ.

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28. (Previously Presented) A computer program product as defined in claim 27, wherein updating the presence information further comprises:

- changing the presence information to offline if the status update indicates the user is invisible;

- refraining from changing the presence information if the status update indicates the user is offline;

- refraining from changing the presence information if the status update indicates the user is idle;

- changing the presence information to offline if the status update indicates the user is offline and the remaining view statuses indicate the status of the user is offline;

- changing the presence information to idle if the status update indicates the user is idle and the remaining view statuses indicate the user is idle or offline; and

- changing the presence information to match the status update.